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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/644,484	08/20/2003	Trung V. Le	10383US01	7391

7590 12/18/2006

Attention: Eric D. Levinson  
Imation Corp.  
Legal Affairs  
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EXAMINER

NGUYEN, HUNG THANH

ART UNIT PAPER NUMBER

2841

DATE MAILED: 12/18/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

10/644,484

Applicant(s)

LE, TRUNG V.

Examiner

HUNG T. NGUYEN

Art Unit

2841

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 08 May 2006.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1, 7-13, 15, 19, 20, 23, 25 and 27 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1, 7-13, 15, 19, 20, 23, 25, 27 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)                     | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____                                      |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)          | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____  | 6) <input type="checkbox"/> Other: _____                          |



## DETAILED ACTION

The Final Office Action dated November 4, 2005 is hereby withdrawn. The new rejection is stated below.

### ***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 7-13, 15, 19-20, 23, 25, 27 are rejected under 35 U.S.C. 102(b) as being anticipated by Kaneko Yoshio (2002JP-2002-084930 or US2003/0221066).

**Regarding claim 1:** Kaneko Yoshio discloses in figure 3, a memory card comprising: a memory (28, 32); a first connector (25) electrically couple to the memory (28) and conforming to a first connector (25) standard; a second connector (27) electrically coupled to the memory (32) and conforming to a second connector (26), wherein the first connector (25) standard comprises a host computer connector (HCC) standard and the second connector (27) standard comprises a device communication connector (DCC) standard; and a controller (29, 35) that controls the memory (28, 32) and controls output via the first connector (25) and the second connector (27), wherein the first (25) and second (27) connectors are electrically coupled to the memory (28, 32) through the controller (29, 35) and wherein the controller (29, 35) comprises a memory controller (30, 34) integrated with a first connector controller (not show) conforming to the first

connector (25) standard and integrated with a second connector controller (not show) conforming to the second connector (27) standard.

**Regarding claim 7, 25:** Kaneko Yoshio discloses in figures 2-4, the memory card wherein: the HCC comprises a standard selected from a group consisting of: a personal computer memory card international association (PCMCIA) standard (see column 3, paragraph 0029 and column 6, paragraph 0066), a PC Card standard, a CardBus standard (see column 3, paragraph 0029 and column 6, paragraph 0066), a Universal Serial Bus (USB) standard (see column 3, paragraph 0029 and column 6, paragraph 0066), a Universal Serial Bus 2 (USB2) standard (see column 3, paragraph 0029 and column 6, paragraph 0066), an IEEE 1394 Fire Wire standard (see column 3, paragraph 0029 and column 6, paragraph 0066), a Small Computer System Interface (SCSI) standard (see column 3, paragraph 0029 and column 6, paragraph 0066), an Advance Technology Attachment (ATA) standard (see column 3, paragraph 0029 and column 6, paragraph 0066), a serial ATA standard (see column 3, paragraph 0029 and column 6, paragraph 0066), a Peripheral Component Interconnect (PCI) standard (see column 3, paragraph 0029 and column 6, paragraph 0066), and a conventional serial or parallel standard (see column 3, paragraph 0029 and column 6, paragraph 0066); and the DCC comprises a standard selected from a group consisting of: a Compact Flash standard, a Smart Media standard (see column 3, paragraph 0029 and column 6, paragraph 0066), a MultiMedia Card standard (see column 3, paragraph 0029 and column 6, paragraph 0066), a Secure Digital standard (see column 3, paragraph 0029 and column 6,

paragraph 0066), a Memory Stick standard (see column 3, paragraph 0029 and column 6, paragraph 0066), and an xD standard (see column 3, paragraph 0029 and column 6, paragraph 0066).

**Regarding claim 8:** Kaneko Yoshio discloses in figures 2-4, the memory card wherein the first connector (explain in claim 1) is disposed (see figure 2) on a different side of the memory card (explain in claim 1) than the second connector (explain in claim 1).

**Regarding claim 9:** Kaneko Yoshio discloses in figures 2-4, the memory card wherein the first connector (explain in claim 1) is disposed (see figure 2) on an opposite side of the memory card (explain in claim 1) relative to the second connector (explain in claim 1).

**Regarding claim 10:** Kaneko Yoshio discloses in figure 2-4, the memory card wherein at least one of the first connector (explain in claim 1) and the second connector (explain in claim 1) comprises a retractable connector (23).

**Regarding claim 11:** Kaneko Yoshio discloses in figure 3, the memory card further comprising: a housing defining a slot for the retractable connector; and a first electrical contact on the retractable connector and a second electrical contact within the slot, wherein the first electrical contact couples to the second electrical contact when the retractable connector is extended from the slot (elements 25, 27 are within the connector 36).

**Regarding claim 12:** Kaneko Yoshio discloses in figure 3, the memory card wherein the first connector (explain in claim 1) is disposed on the same side of the memory card (25 is on the same side with 28) as the second connector (explain above).

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**Regarding claim 13:** Kaneko Yoshio discloses in figure 3, the memory card wherein a set of electrical contact elements of the first connector (explain above) comprise a subset of a set of electrical contact elements (rectangular portion of 25 and 27) of the second connector (explain in claim 1).

**Regarding claim 15:** Kaneko Yoshio discloses in figure 3, a memory (28, 32); a first connector (25) electrically coupled to the memory (28, 32) and conforming to a first connector (25) standard;

a second connector (27) electrically couple to the memory (32) and conforming to a second connector (27) standard wherein the first connector (25) standard comprises a host computer connector (HCC) standard and the second connector (27) standard comprises a device communication connector (DCC) standard;

a first controller (29) electrically coupled to the memory (28) and the first connector (25), the first controller (29) controlling the memory (28) and output via the first connector (25); wherein the first controller (29) comprises a memory controller (30) integrated with a first connector controller (not show) conforming to the first connector (25) standard; and a second controller (35) electrically coupled to the second connector (27) and the first controller (29), the second controller (35) controlling output via the second connector (27) and conforming to the second connector (27) standard, therein the first connector (25) is electrically coupled to the memory (28) through the first controller (29), and the second connector (27) is electrically coupled to the memory (32) through the second controller (35) and the first controller (29).

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**Regard claim 19:** Kaneko Yoshio discloses the memory card further comprising a third connector (24) electrically coupled to the memory (28) and conforming to a third connector (24) standard.

**Regard claim 20:** Kaneko Yoshio discloses the memory card further comprising a fourth connector (26) electrically coupled to the memory (32) and conforming to a fourth connector (26) standard.

**Regarding claim 23:** Kaneko Yoshio discloses in figure 3, a system comprising: a first device (21) including a first electrical contact (rectangular portion of 25) for receiving a connector that conform to a first connector (25) standard ;

a second device (22) including a second electrical contact (rectangular portion of 27) for receiving a connector that conforms to a second connector (27) standard; and

a memory card (all elements of figure 3) including:

a memory (28, 32),

a first connector (25) conforming to the first connector (25) standard such that the first connector (25) can be received by the first electrical contact (rectangular portion of 25) of the first device (21),

a second connector (26) conforming to the second connector (26) standard such that the second connector (27) can be received by the second electrical contact (rectangular portion of 27) of the second device (22), wherein the first connector (25) stand comprises a host computer connector (HCC) standard and the second connector (27) standard comprises a device communication connector (DCC) standard, and

a controller (29) that controls the memory and controls output via the first connector (25) and the second connector (27) wherein the first (25) and second (27) connectors are electrically coupled to the memory through the controller (29, 35) and wherein the controller (29, 35) comprises a memory controller (30, 34) integrated with a first connector controller (connector not show) conforming to the first connector (25) standard and integrated with a second connector controller (connector not show) conforming to the second connector (27) standard.

**Regarding claim 27:** Kaneko Yoshio discloses in figure 3, a system comprising: a first device (21) including a first electrical contact (rectangular portion of 25) for receiving a connector that conforms to a first connector (25) standard;

a second device (22) including a second electrical contact (rectangular portion of 27) for receiving a connector that conforms to a second connector (27) standard; and a memory card (21, 22) including:

a memory (28, 32),

a first connector (25) conforming to the first connector (25) standard such that the first connector (25) can be received by the first electrical contact (rectangular portion of 25) of the first device (21),

a second connector (27) conforming to the second connector (27) standard such that the second connector (27) can be received by the second electrical contact (rectangular portion of 27) of the second device (22), wherein the first connector (25) standard comprises a host computer connector (HCC) standard and the second connector (27) standard comprises a device communication connector (DCC) standard,



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a first controller (29) electrically coupled to the memory (28) and the first connector (25), the first controller (29) controlling the memory (28) and output via the first connector (25), wherein the first controller (28) comprises a memory controller (30) integrated with a first connector controller (not show) conforming to the first connector (25) standard, and

a second controller (35) electrically coupled to the second connector (27) and the first controller (35), the second controller (35) controlling output via the second connector (27) and conforming to the second connector (27) standard, wherein the first connector (25) is electrically couple to the memory (28) through the first controller (29), and the second connector (27) is electrically couple to the memory (32) through second controller (35) and the first controller (29).

### ***Response to Arguments***

Applicant's arguments filed 05/08/2006 have been fully considered but they are not persuasive.

**Regarding claim 1, 23:** applicant argues that "a controller that controls the memory and controls output via the first connector and the second connector". This argument is not found to be persuasive because Kaneko Yoshio discloses in figure 3, controllers (29, 35) controlling output via first and second connector.

**Regarding claim 15, 17:** applicant argues that "a controller that controls both the memory and output via one of two different connectors". This argument is not found to be persuasive because Kaneko Yoshio discloses in figure 3, the controller (29, 35)

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control both the memory (28, 32) and output via one of two different connectors (25, 27).

**Regarding claim 10, 11, 13:** applicant argues that "a retractable connector and a slot for retractable connector". This argument is not found to be persuasive because Kaneko Yoshio discloses in figure 3, the retractable connector (23) and a slot (slot uses to connect (25, 27).

**Regarding claim 12:** applicant argues that "two different connectors disposed on a same side of the memory card". This argument is not found to be persuasive because Kaneko Yoshio discloses in figure 3, the two different connectors (24, 26).

**Regarding claim 19, 20:** applicant argues that "memory cards that include three or four connectors". This argument is not found to be persuasive because Kaneko Yoshio discloses in figure 3, third (24) and four (26) connectors.

### **Relevant Art**

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The Le (US 6890188) teaches the memory card compatible with device connectors, Le (US 6908038) teaches the multi purpose connectors, Dell et al. (US 6111757) teaches SIMM/DIMM memory modules.

### **Conclusion**

Any inquiry concerning this communication or earlier communications from the examiner should be directed to HUNG T. NGUYEN whose telephone number is 571-272-5983. The examiner can normally be reached on 8:00AM-5:30PM. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, REICHARD DEAN can be reached on 571-272-1984. The fax phone


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number for the organization where this application or proceeding is assigned is 703-872-9306.

HN

HUNG NGUYEN

11/28/2006

  
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12/11/06